APPENDICES

APPENDIX I: QUESTIONNAIRE FOR CONDUCTING IDD SURVEY IN GOITRE ENDEMIC DISTRICT IN MAINLAND TANZANIA (1999) AND IN ZANZIBAR (2001)

1. DistrictCode 2. School Code 3. Name of village	Code
4. Location of village: 1 = Urban 2 = Urban	[]
5. Geographical location: Highland =2, Lowlands =3, Township =3 6. Class (I-VII) []	[]
7. Date of interview dd/mm/yy [][][][][] 8. Name of interviewer	Signature

9.	10.Child	11. Sex	12. Ever	13.Can you	14.Goitre grade	15.Salt test	16.Urinar
Child	Age	M=1	heard of	identify	Old =0,1a,1b,2,	for iodine	y iodine
no.	(complete	F = 2	iodated salt	iodated salt	3.	+ve=1	conc.
	years)		1=Yes 2=No	1=Yes	New=(0,1, 2)	-ve = 2	(µg/L)
				2=No			
					Old New		
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]
[][]	[][]	[]	[]	[]	[] []	[]	[]

APPENDIX II: QUESTIONNAIRE FOR SALT TRADERS USED FOR PAPER I&II

Zanzibar Central =03 Zanzibar South = 04 Zanzibar Town =05 Zanzibar West = 06 Wete-Pemba North =07 Micheweni-Pemba North =08 Chakechake-Pemba =09 Mkoani-Pemba = 10 3. (i) Ward][]	
Zanzibar Central =03 Zanzibar South = 04 Zanzibar Town =05 Zanzibar West = 06 Wete-Pemba North =07 Micheweni-Pemba North =08 Chakechake-Pemba =09 Mkoani-Pemba = 10 3. (i) Ward][
Zanzibar Town =05 Zanzibar West = 06 Wete-Pemba North =07 Micheweni-Pemba North =08 Chakechake-Pemba =09 Mkoani-Pemba = 10 3. (i) Ward]
Wete-Pemba North		
Chakechake-Pemba =09 Mkoani-Pemba = 10 3. (i) Ward		
 (i) Ward		
 4. Location Urban = 1 Rural = 2 S. Geographical features 		
Urban = 1 Rural = 2 [5. Geographical features		
5. Geographical features		
]	
Highland = 1 Lowland = 2 Township = 3 $\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix}$]	
6. Date of interview (dd/mm/yy) [][][][][]	
7. How old are you (completed years)?		
99= don't know		
98= above 90][]
8. What is the highest formal school you completed?		
No education =1		
Less than 1 year =2		
Standard 1-4 =3		
Standard 5-8 =4		
Form 1-2 =5		
Form 3-4 =6		
Form 5 -6 =7		
More than secondary school =8		
Adult Education =9 []	
9. Have you heard of IDD?		
Yes = 1 No = 2 []	
If No go to Question 12		
10. If yes, how did you learn about the IDD?		
Posters/Billboards = 1		
Leaflets = 2		
Radio = 3		
Newspapers = 4		
Others (specify) = 5]	
11. Have you ever seen a person with Goitre		
Yes = 1 No= 2 Not sure= 3]	
12. Have you heard about iodated salt? 104		

Controlling iodine deficiency disorders through salt iodation

	Yes = 1 No = 2	Not sure =	3		1	[]	
13.	How do you identify ioda	ited salt?					
	1= Iodated salt emblem	3= Test	kit				
	2= Written on the packet/	'bag	4= Others		1	[]	
14.	Is the salt you are current	ly selling iodinate	ed?				
	1 = Yes 2 = No	3= Not sure			1	[]	
15.	Did you ever sell salt whi	ch is not iodinate	d?				
	1=Yes	2=No 3=Not s	sure		1	[]	
16.	Are you still selling non i	odated salt?					
	1=Yes	2=No	3= Not sure		1	[]	
17.	Why are you currently sti	ll selling non ioda	ated salt?				
	1=Peoples preference	3= Easy	y to handle				
	2= Easy to sell	4=Othe	ers (specify)				
	5=Not applicable				1	[]	
18.	Why did you stop selling	non iodated salt?					
	1=Legislation		4=Not available				
	2=Advised by health pers	sonnel	5=Others (specif	y)			
	3= Not good for health				I	[]	
19.	FOR INTERVIEWER	ONLY					
20 (a)	Non iodized salt available	e in shop?					
	1= Yes 2=No				[]		
20 (b)	Price in Tshs/Kg:	i) Fine salt []	[][]	ii) Coarse salt	[][]	[]	
20 (c) Is	s iodized salt available in s	hop?					
	1=Yes	2= No			[]		
20 (d)	Price in Tshs/Kg:	i) Fine salt []	[][]	ii) Coarse	[][]	[]	

APPENDIX III:

TANZANIA FOOD AND NUTRITION CENTRE

QUESTIONNAIRE FOR CONDUCTING NATIONAL IDD SURVEY 2003/4

1. District	2. Wa	rd	3. School	l		
4. Geographical location: Hig	hland = 1	Lowlands = 2	Township = 3]]	
5. Name of interviewer		6. Date of inter	view			

No.	Child name	Age (years)	Sex M = 1 F = 2	Class (I-VII)	Goitre grade (0,1,2)	Salt test for iodine +ve = 1 -ve = 2	Urinary iodine (µg/l)	Remarks
1.								
2.								
3.								
4.								
5.								
etc.								

APPENDIX IV: GUIDE QUESTIONNAIRE FOR SALT IODATION MONITORING AT FACTORY LEVEL IN MAINLAND TANZANIA (Paper IV)

Region: _	District:	Name of Factory:
Owner: _	Location:	
Date of in	aspection:	Name of inspector:_
1. Mod	e/mechanism of salt production	
	- Solar	
	- Thermal	
	- Both	
2. Mode	of iodation	
	- machine spray	
	- Hand spray	
	- Dripping	
	- Dusting (Dry-mixing).	
3. (a) [Гуре of iodation machine (<i>if Q.2=a)</i>	
o. (a)	- large (16 tons and above per hour	•)
	- medium (5-15 tons per hour)	,
	- small (less than 5 tons per hour)	
	- others:	
	omers.	_
(b)	What is the state of the machine?	
	- working	
	- not working	
4. Packa	ging:	
(a)	Type of material:-	
	- jute bags	
	- sisal bags	
	- polythene bags	
	- others	
(b)	Quality of packaging materials	
	- lined	
	- not lined	
	- specially lined material	

Type of sealing

(c)

threading

	-	glue
	-	tie
	-	others (specify)
<i>(</i> 1)	T 1	11: (16: 1)
(d)		pelling (multiple answers)
		ck if the item is shown√)
	-	address
	-	batch No.
	-	IDD logo
	-	date of production
	-	date of expiry
	-	quality specifications (ingredients):
		• amount of iodine (in ppm)
		• % moisture content
		• % impurities
5.		rage:
	(a)	Exposure to sun
		- shaded
		- not shaded
	(b)	If shaded
	-	walled
	-	not walled
	(c)	Type of floor
	-	earthen
	_	concrete
	_	brick
	_	wooden
	_	others
6.	Qu	ality control
	(a)	Is there a mini-lab?
	-	Yes
	-	No
	(b)	Is there an internal quality control mechanis
	-	Yes
	-	No

(c) If yes, what are the elements?

		 speed checking (conveyer, mixer 	etc)		
		- precision in the preparation of KI	O ₃ s	olution	
		- testing of iodine level			
		• Qualitative			
		 Quantitative 			
If quantitativ	ve tes	sting is done, is standard QC material used?	·		
	-	Yes			
	-	No			
7.	Rec	cord keeping			
	(a)	Is there record keeping for iodine content	?		
		- Yes			
		- No			
	(b)	If yes, the iodation levels ranged from		to	-ppm
8.	Me	ntion three major constraints you are fac	cing		
		(1)			
		(2)			
		(3)			
9.	Th	ree samples collected for testing at TFNC	(Ti	ck 🗸	
	-	before iodization	[]	
	-	after iodization	[]	
	-	stored salt (iodinated)	[]	

spray nozzle checking

APPENDIX V: CHECKLIST FOR FOCUS GROUP DISCUSSIONS FOR IDD SURVEY IN MAINLAND TANZANIA AND ZANZIBAR

- 1. Introduction of visitors and group members and statement on the purpose of the study.
- 2. Find out if the group has heard of IDD problem.
- 3. (a) Find out if the group knows the health effects of iodine deficiency
 - (b) If they know, ask them to mention the disorders
- 4. Ask the group members if they have ever seen a person with goitre
- 5. Probe if they know the cause of goitre
- 6. Find out if the group members know how to prevent/treat goitre (Probe) on the ways of preventing goitre).
- 7. Ask them if they have ever seen iodinated oil capsules (IOCs)
- 8. (a) Ask them if they have swallowed the IOCs
 - (b) Probe on when and where
- 9. Probe on their compliance to IOC
- 10. Ask them the source of salt used at their homes (within their locality).
- 11. Ask them if they know whether the salt they use at home is iodated or not.
- 12. Probe how they know that the salt is iodinated
- 13. Ask them on their compliance opinion in using iodated salt
- 14. (a) Find out whether they prefer coarse or fine salt
 - (b) Probe the reasons for their preference
- 15. Find out how they store their salt at home.

Appendix V1: Proportion of use of I-salt* at household level and TGP** at regional level and median UIC*** at district level in schoolchildren (6-12yrs) in 2004, in order of regional I-salt coverage

Results by region								Results for the	district in ea	ich region that wa	is selected	for urinary ic	Results for the district in each region that was selected for urinary iodine concentration measurement	ı measuren	nent		
Region		Household us	Household use of iodated salt		Total goitre prevalence	revalence		District	Househok	Household use of iodated salt	_	Total goitre prevalence	prevalence		Urinary iodine concentrations	e concentrat	ions
	Clusters	Number of	Samples with	Traffic	Total	Children with	Traffic		Number	Samples with	Traffic	Total	Children with	Traffic	Number of	Median	Traffic
	per	salt	iodine n (%)	light	number of	goitre n (%)	light		of salt	iodine n (%)	light	number of	goitre n (%)	light	urine	(µg/L	light
	region	samples		status	children		status		samples		status	children		status	samples		status
		tested			examined				tested			examined			analysed		
Kagera	15	6739	6716 (99.7)	Ð	4574	35 (0.8)	Ð	Bukoba	816	816 (100.0)	Ð	549	6(1.1)	Ð	209	192.5	D
Kigoma	6	6937	(9:66) 6069	Ð	4516	109 (2.4)	g	Kibondo	1426	1426 (100.0)	g	815	41 (5.0)	٨	210	254.6	Ð
Mara	12	5717	(9:66) 9695	Ð	4254	623 (14.4)	Y	Musoma	1521	1514 (99.5)	g	1139	174 (15.2)	Y	211	230.5	G
Mwanza	24	12497	12438 (99.5)	g	8509	24 (0.3)	g	Ilemela	1412	1406 (99.6)	g	995	0(0.0)	g	208	372.5	Ь
Tabora	18	7985	7881 (98.7)	g	9969	116 (1.9)	g	Sikonge	926	926 (100.0)	g	701	1(0.1)	O	210	236.4	G
Arusha	15	8658	8549 (98.7)	G	6408	576 (9.0)	Y	Monduli	1075	1063 (98.9)	G	737	120 (16.3)	Y	209	280.0	G
Morogoro	15	5544	5306 (95.7)	Ð	4773	223 (4.5)	g	Kilosa	917	896 (97.7)	g	808	31 (2.6)	Ð	212	166.7	G
Dodoma	15	6647	6292 (94.7)	G	4349	166 (3.8)	G	Dodoma	2293	2283 (99.6)	G	1895	70 (5.3)	Y	210	203.6	G
Mbeya	21	7534	6640 (88.1)	Y	5628	956 (7.0)	Υ	Mbeya	1066	1055 (99.0)	g	691	135 (19.5)	Y	208	147.0	G
Shinyanga	21	9160	8005 (87.4)	٨	5855	66 (1.1)	Ö	Kishapu	1036	939 (90.6)	g	999	3 (0.4)	Ö	208	224.5	O.
Dar es Salaam	6	2420	2094 (86.5)	Y	2631	8 (0.3)	G	Temeke	937	663 (70.8)	Y	993	2(0.2)	G	211	887.0	Ь
Ruvuma	12	4175	3523 (84.4)	Y	2681	46 (1.7)	g	Namtumbo	558	494 (88.5)	Y	259	1 (0.4)	g	206	45.1	R
Singida	6	4172	3521 (84.4)	Y	2358	56 (2.4)	Ð	Singida	1180	791 (67.0)	Ϋ́	595	12 (2.0)	9	210	90.2	Y
Kilimanjaro	15	5927	4856 (81.9)	Y	4607	184 (4.0)	G	Hai	1215	1215 (100.0)	9	986	31 (2.5)	G	220	396.5	Ь
Pwani	18	4791	3730 (77.9)	Y	3396	10 (0.3)	g	Kisarawe	1107	971 (87.7)	Y	763	0(00)	9	210	836.3	Д
Tanga	21	6125	4627 (75.5)	Υ	5555	215 (3.9)	Ð	Muheza	668	485 (53.9)	Υ	734	32 (4.4)	g	325	185.7	Ð
Manyara	15	7047	5267 (74.7)	Y	4866	541 (11.1)	Y	Simanjiro	1154	1154 (100.0)	g	688	66 (7.4)	Y	211	412.4	Р
Mtwara	12	5237	3368 (64.3)	Y	3645	1 (0.0)	g	Masasi	1967	1326 (67.4)	Y	1417	0(00)	9	212	7:49	Y
Rukwa	6	3797	1414 (37.2)	R	2610	367 (14.1)	Y	Mpanda	1186	729 (61.5)	Y	881	110 (12.5)	Y	201	270.8	Ð
Iringa	18	6711	2471 (36.8)	×	4275	838 (19.6)	Y	Mufindi	1052	238 (22.6)	≃	702	110 (27.1)	0	211	92.9	Y
Lindi	15	4121	1048 (25.4)	~	2590	21 (0.9)	Ð	Liwale	534	307 (57.5)	Ϋ́	285	2(0.7)	O.	209	72.6	Y
Total/unweighted																	
mean	318	131941	110350 (83.6)	γ	94046	5181 (5.5)	Y	Total	24277	20697 (85.3)	٨	17499	1027 (5.7)	Y	4522	203.6	G

Overall 1-salt coverage for districts sub-sampled for uninary iodine concentration*** = 85.3% (95% CI: 84.9, 85.8), TGP = 5.7 % (95 % CI 5.63, 5.71). Overall median UIC = 203.6 (95% CI: 192.0, 215.2) µg/L NB: Overall coverage (national) for iodated salt* = 83.6% (95% CI: 83.4, 83.8), Total goitre prevalence ** = 5.5% (95%CI: 5.3, 5.6),

Key to traffic light alphabetical colour codes (according to WHO 11) except for iodated salt, where two more categories were added): L salt coverage: 0 - 49.9% (very poor) = red (R), 50 - 89.9% (poor/unsatisfactory) = yellow (Y), >90% (adequate) = green (G). TGP: 0 - 4.9 % (not of public health significance) = green (G), 5 - 19.9% (midd) = yellow (Y), 20 - 29.9% (moderate) = orange (O), ≥30% (severe) = red (R) Median urinary iodine: 0 - 49.9 µg/L (very insufficient) = red (R), 50-99.9 µg/L (insufficient) = yellow (Y), 100 - 299.9 µg/L adequate= green (G), ≥300 µg/L (excessive intake) = pink (P).

APPENDIX VII: PUBLICATIONS/BOOKS BY VINCENT ASSEY

- 1. **Assey VD**, Tylleskär T, Momburi PB, Maganga M, Reilly M, Mlingi NV, Greiner T, Peterson S. Improved salt iodation methods for small scale salt producers in low-resource settings in Tanzania. *BMC Public Health* 2009, **9:**187doi:10.1186/1471-2458-9-187.
- 2. Lukmanji Z, Hertzmark E, Mlingi N, **Assey V**, Ndossi G, Fawzi W. Tanzania Food Composition Tables. MUHAS- TFNC, HSPH, Dar es Salaam, Tanzania -2008. https://apps.sph.harvard.edu/publisher/upload/nutritionsource/files/tanzania-food-composition-tables.pdf
- 3. **Assey VD**, Peterson S, Greiner T. Sustainable universal salt iodization in low-income countries time to re-think strategies? European J Clin Nutr. 2008 Feb;62(2):292-4.
- 4. **Assey VD**, Mgoba C, Mlingi N, Sanga A, Ndossi GD, Greiner T, Peterson S. Remaining challenges in Tanzania's efforts to eliminate iodine deficiency. Public Health Nutr. 2007 Oct;10(10):1032-8.
- 5. **Assey VD**, Greiner T, Mzee RK, Abuu H, Mgoba C, Kimboka S, Peterson S. Iodine deficiency persists in the Zanzibar Islands of Tanzania. Food Nutr Bull. 2006 Dec;27(4):292-9
- 6. **Assey VD**, Peterson S, Kimboka S, Ngemera D, Mgoba C, Ruhiye DR, Greiner T, Ndossi GD, Tylleskär T. Tanzania national survey on iodine deficiency: impact after twelve years of salt iodation (*In Press*).
- 7. **Assey V**, Kimboka S. The Salt Iodation Programme: Experience of a Public Private Partnership. In: Twenty five years of Public Health experiences in Tanzania: Towards achieving Millennium Development Goals and the National Strategy for Growth and Reduction of Poverty: Proceedings of the Twenty Fourth Annual Scientific Conference of the Tanzania Public Health Association 20th -24th February, 2006 White Sand Hotel, Dar es Salaam, Tanzania. Pg 122-126
- 8. Peterson S, **Assey VD**, Forsberg BC, Greiner Kavishe FP, Mduma B, Rosling H, Sanga AB, Gebre-Medhin M. Coverage and costs of iodized oil capsule distribution in Tanzania. *Health policy and planning* 1999; 14(4): 390-9
- 9. Johanna S, Mevan W, **Assey, VD**. Mehari MG, Peterson S. Salt iodation and risk of neonatal brain damage. Lancet 1998; 352 (July 4):34-35 *Letter*
- 10. Peterson S, **Assey V**, Dalenbring M, Lorri W, Gebre-Medhin M. Adequate Iodine Status in a Rwandan Refugee Population Despite Residence in an Iodine Deficient Area of Tanzania. *Svensaka Lakaresallskapets Riksstamm Stockholm: Svenska Lakaresallskapets Handlingar Hygiea*, 1995:380
- 11. Mlingi NV, **Assey VD**, Swai ABM, McLarty DG, Karlen H, Rosling H. determinants of cyanide exposure from cassava in a Konzo-affected population in northern Tanzania. *Internat J. Food Sciences and Nutrition* 1993;33:137-144
- 12. Peterson S, **Assey VD**, Forsberg BC, Greiner Kavishe FP, Mduma B, Rosling H, Sanga AB, Gebre-Medhin M. Coverage and costs of iodized oil capsule distribution in Tanzania *Health policy and planning* 1999 14(4): 390-9.

REPORTS

- 1. **Assey VD** et al., Prevention and Control of Iodine Deficiency Disorders in Tanzania: Five Year National Plan of Action 2007/08 2111/12; July 2007
- 2. **Assey VD**, Muganda G, Mselle L, Sanga AB, Lyamuya V, Nombo A, Mwanyika S. Monitoring Universal Salt Iodation in Tanzania: Report on supervision of salt iodation and mobilization of small salt producers in 13 districts to form working groups for sustainable salt production and iodation July 2007
- 3. **Assey VD**, Fatma A, Muganda G, Nombo A, Mwanyika S Nihuka A, Ndossi G. Control of iodine deficiency disorders: Supportive supervision report in salt producing sites along the coastal belt of Indian Ocean in Tanzania. TFNC/Micronutrient Report April 2008
- 4. **Assey VD**, Muganda G, Fatma A, Ndossi G. Control of iodine deficiency disorders: Mobilization of small scale salt producers and awareness creation in low performing districts in Tanzania. TFNC/Micronutrient Report October 2007
- 5. **Assey, VD**, Kimboka, S Sanga AB Proceedings of 41st NCCIDD meeting held on Sept, 19th and 30th November 2006 at TFNC Conference Hall, Dar es Salaam, TFNC Report 2006
- Kimboka S, Assey VD, Sanga AB. National IDD survey in Tanzania: Preliminary report TFNC Report 2002; 200
- 7. **Assey V**, Mlingi N, Ngereja P, Ntikwa S. Salt iodization for control of IDD in Tanzania; Proceedings of the first meeting of Regional Chairpersons of Salt producers Association held in Dar es Salaam from 16th 17th June 1999. TFNC Report No. 1904; 1999
- 8. **Assey VD**, Kunsindah B, Bunga BE, Progress and impact of salt iodization programme in Kilwa, Lindi and Mtwara districts TFNC Report No.1998
- 9. Kimboka S, **Assey VD**, Njebele CW. Report on anaemia and related causative factors among Burundian refugees in Kigoma region in Tanzania. (UNICEF Consultancy report February 1998)
- 10. Lorri W, Kimboka S, **Assey VD**, National Nutrition Survey Report, Republic of Rwanda (*UNICEF/UNHCR Consultancy report-May 1997*)
- 11. **Assey V**, Lyamuya V. The IDD situation in Mbinga district: Increased goitre prevalence is alarming. Tanzania Food and Nutrition Centre; Dar es Salaam TFNC Report June 1995
- Ballart A, Assey VD, Bategeki W, Navetta D, Kavishe F, Combating iodine deficiency disorders in Kagera region through mass mobilization and sensitization seminars. TFNC Report No.1661; 1994
- 13. Peterson S, **Assey V**. Proposal for national IDD monitoring and evaluation system for Tanzania ICH, Uppsala University, Sweden; Tanzania Food and Nutrition Centre, 1994
- 14. Magambo F, Sanga AB, Kavishe FP, **Assey VD**, Rutahakana R et all. Report on salt consumption pattern study in four districts in Tanzania. TFNC Report No. 1473; 1991
- 15. **Assey VD**, (Supervisors: Dr Collin Toothill, Prof Karen Lee). Fluorimetric measurements of heam synthetase activity (*in vitro*) in anaemia due to erythropoetic protoporphyria, iron deficiency and lead poisoning. Research project report: Part of fulfillment of *Master Degree*, Department of Chemical Pathology, University of Leeds, Leeds, UK July 1991.

Appendix VIII: Thematic focus group discussion - a tool used for Paper V

1 **Introductory part:** Who are we and the purpose of our visit in the salt factories

2 Knowledge of salt workers about iodine deficiency and prevention

- a. Ever heard or seen a person with goitre?
- b. What do you think are the causes of goitre?
- c. Probe if they can list other examples of iodine deficiency disorders
- d. Is there any disabled subject in your area suspected to be due to iodine deficiency?
- e. How do you normally treat subjects with goitre in your families?

3 Type and source of salt commonly used at home

- a. What type of salt commonly used at home?
- b. Source of salt?

4 Awareness on salt iodation

- a. Time period they have been working in the salt factories
- b. Have you heard of iodated salt?
- c. How do you know if the salt is iodated?
- d. Have you ever had training regarding salt quality and iodation

5 Information about the procedures for salt iodation

- a. Who is responsible for salt iodation?
- b. Deduce if there is any guideline for salt iodation
- c. Probe them to describe procedures for salt iodation?
- d. Probe on the weighing instruments and their working status
- e. Probe on amount of potassium iodate used and for what quantities of salt is/are iodated
- f. Observe on the iodation procedures and relate with discussion
- g. Probe on the salt packaging and storage
- h. Source of potassium iodate and price kilogram
- i. Probe if they have enough supplies for salt iodation and testing iodine

6 Information about supervision during salt production and salt iodation

- a. Who does supervision to ensure salt is adequately iodated?
- b. What is used to measure or test salt for adequate iodine?
- c. If there is any penalty given to workers found not iodating the salt properly?
- d. How often the salt factory is visited by external authority to check the salt if it iodated within a week or/and months
- e. If yes; is there any penalty given if the salt was found not adequately iodated?
- f. At the end give brief talk on the IDD problem, effects and its prevention and control using iodated salt.

7 Workers' opinion regarding knowledge gained on the importance of iodine in salt